

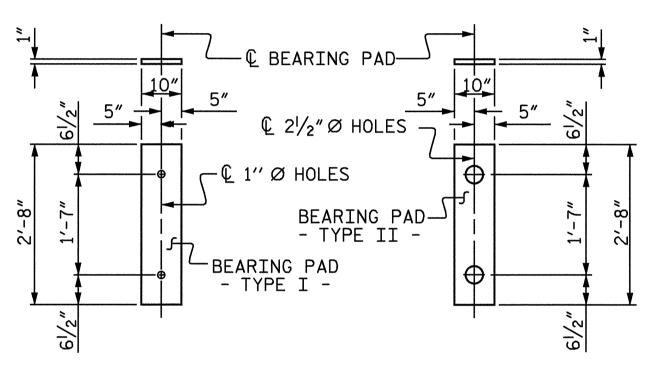
DEAD LOAD DEFLECTION AND CAMBER						
	3'-0" × 1'-9"					
	SPAN "A"	SPAN "B"	SPAN "C"			
CAMBER (SLAB ALONE IN PLACE)	1/2"	<u></u> 4 2 1/16"	∮ 1/2″			
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	∮ 1∕16″	√ 3/8″	♦ 1/16″			
FINAL CAMBER	Å 7/16"	1 ¹ / ₁₆ "	[↑] 7/16″			

** INCLUDES FUTURE WEARING SURFACE

BLOCKOUT DETAIL FOR DRAINAGE

(16 BLOCKOUTS REQUIRED)
(BLOCKOUTS TO BE CENTERED BETWEEN "S" BARS IN BARRIER RAIL)

	BILL 0	F MATER	IAL FOR	CONCR	ETE E	BARRI	ER RA	IL
BAR		BARS PER S	PAN	TOTAL NO.	SIZE	TYPE	LENGTH	WEIGHT
	SPAN A	SPAN B	SPAN C					
₩ B3	28		28	56	#5	STR	14'-0"	818
★ B4		28		28	#5	STR	24'-7"	718
* S4	60	102	60	222	#5	2	5′-9″	1331
* EPOXY COATED REINFORCING STEEL LBS.								2867
CLASS AA CONCRETE CU.YDS.								25.1
TOT	AL LIN. FT.	OF CONCRETE	E BARRIER R	AIL				215.50

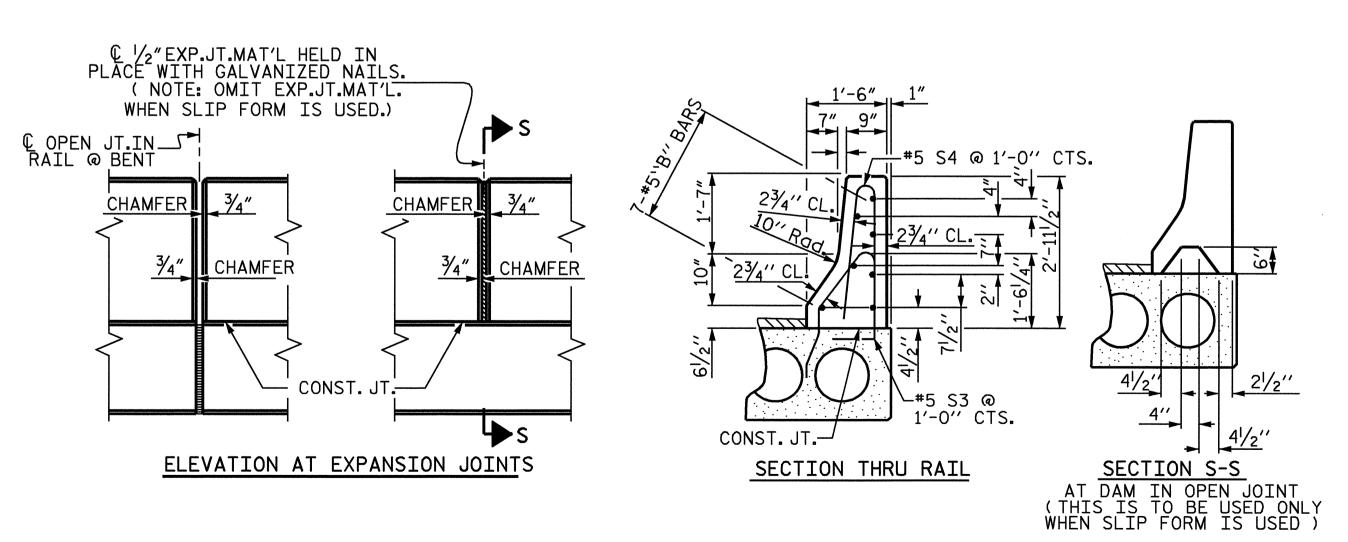


GRADE 270 STRANDS						
	½″Ø L.R.					
AREA (SQUARE INCHES)	0.153					
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300					
APPLIED PRESTRESS (LBS.PER STRAND)	30,980					

ELASTOMERIC BEARING DETAILS

FIXED END

(TYPE I - 36 REQ'D)

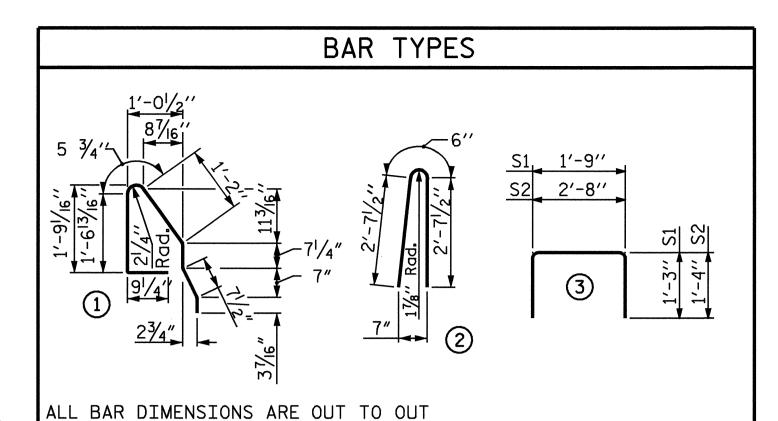


EXPANSION END

(TYPE II - 36 REQ'D)



ASSEMBLED BY : PEGGY A	DKINS DATE :	10-03
CHECKED BY: T. AVER	ETTE DATE:	11-03
בטלד ווטוו אום וווואום	REV. 10/17/00 REV. 7/10/01	RWW/LES RWW/LES
	REV. 5/7/03R	RWW/JTE



BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN "A"

					OR UNIT UIRED)	INTERIO (10 RE)	OR UNIT QUIRED)	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B1	2	#4	STR	28′-5″	38	28′-5 ″	38	
S1	8	#4	3	4'-3"	23	4'-3"	23	
S2	56	#4	3	5′-4″	200	5′-4″	200	
* S3	30	#5	1	5′-6 ″	172			
REINFORCING STEEL					261 LBS.		261 LBS.	
* EPOXY COATED REINFORCING				STEEL	172 LBS.	*****	— LBS.	
5,000 P.S.I. CONCRETE			4.1	CU. YDS.	4.1	CU. YDS.		
$\frac{1}{2}$ " Ø L.R. STRANDS No. 12					12	No.	12	

BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN "B"

				EXTERIOR UNIT (2 REQUIRED)			OR UNIT QUIRED)	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT	
B2	4	#4	STR	26'-0"	69	26′-0″	69	
S1	8	#4	3	4'-3"	23	4'-3"	23	
S2	98	#4	3	5'-4"	349	5′-4″	349	
* S3	51	#5	1	5'-6 "	293			
REINFO	REINFORCING STEEL 441 LBS.					441 LBS.		
⋇ EP0X	* EPOXY COATED REINFORCING STEEL			293 LBS.		— LBS.		
5,000	5,000 P.S.I. CONCRETE			7.0 CU. YDS.		7.0 CU. YDS.		
1/2"Ø L	√2″Ø L.R. STRANDS			No.	23	No.	23	

BILL OF MATERIAL FOR ONE CORED SLAB SECTION SPAN "C"

					OR UNIT UIRED)	INTERIO (10 RE	OR UNIT QUIRED)
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B1	2	#4	STR	28′-5″	38	28′-5″	38
S1	8	#4	3	4'-3"	23	4′-3″	23
S2	56	#4	3	5′-4″	200	5′-4″	200
* S3	30	#5	1	5′-6″	172		
REINF	ORCING :	STEEL			261 LBS.		261 LBS.
∗ EP0	Y COATE	ED REIN	FORCING	G STEEL	172 LBS.		— LBS.
5,000	P.S.I. CC	NCRETE		4.1	CU. YDS.	4.1	CU. YDS.
1/2" Ø L	R. STRA	NDS		No.	12	No.	12

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE $2^{1}\!/_{2}$ "Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE $2^{1}\!/_{2}$ "Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO $1^{1}\!/_{2}$ " ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE B LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING. SEE SPECIAL PROVISIONS.

VERTICAL GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. A VERTICAL CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

CORED SLABS REQUIRED							
		NUMBER	LENGTH	TOTAL LENGTH			
SPAN "A"	EXTERIOR C.S.	2	28′-9¾″	57′-7 ¹ / ₂ "			
SPAN A	INTERIOR C.S.	10	28′-9¾″	288′-11/2″			
SPAN "B"	EXTERIOR C.S.	2	49′-101/2″	99′-9″			
SI AN D	INTERIOR C.S.	10	49'-101/2"	498′-9″			
CDAN //C//	EXTERIOR C.S.	2	28′-9¾″	57'-7 ¹ / ₂ "			
SPAN "C"	INTERIOR C.S.	10	28′-9¾″	288′-11/2″			
TOTAL		36		1290′-0″			

PROJECT NO. B-3711

WAYNE COUNTY

STATION: 18+53.50 -L-

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

STANDARD

3'-0" X 1'-9"

PRESTRESSED

CONCRETE CORED

SLAB LINET



SCAD UNIT								
BER					1981			
	REV	SHEET NO.						
Y:	DATE:	NO.	BY:	DATE:	S-7			
		3			TOTAL SHEETS			
		4			19			